



(11) Publication number: **0 585 130 A3**

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **93306784.5**

(51) Int. Cl.⁵: **A61K 7/48**

(22) Date of filing: **26.08.93**

- (30) Priority: 27.08.92 JP 252324/92
 27.08.92 JP 252325/92
 31.08.92 JP 255822/92
 31.08.92 JP 255823/92
 31.08.92 JP 255824/92
 01.09.92 JP 257348/92
 01.09.92 JP 257349/92
 01.09.92 JP 257350/92
 01.09.92 JP 257351/92
- (43) Date of publication of application: **02.03.94 Bulletin 94/09**
- (84) Designated Contracting States: **DE FR GB IT**
- (88) Date of deferred publication of search report: **08.06.94 Bulletin 94/23**
- (71) Applicant: **SHISEIDO COMPANY LIMITED**
 7-5-5, Ginza
 Chuo-ku Tokyo 104-10 (JP)
- (72) Inventor: **Suetsugu, Masaru, c/o Shiseido Res. Center**
 1050, Nippa-cho,
 Kohoku-ku
 Yokohama-shi, Kanagawa 223 (JP)

Inventor: **Ohnuma, Manami, c/o Shiseido Res. Center**
 1050, Nippa-cho,
 Kohoku-ku
 Yokohama-shi, Kanagawa 223 (JP)

Inventor: **Morikawa, Yoshihiro, c/o Shiseido Res. Center**
 1050, Nippa-cho,
 Kohoku-ku
 Yokohama-shi, Kanagawa 223 (JP)

Inventor: **Yamase, Yuki, c/o Shiseido Res. Center**
 1050, Nippa-cho,
 Kohoku-ku
 Yokohama-shi, Kanagawa 223 (JP)

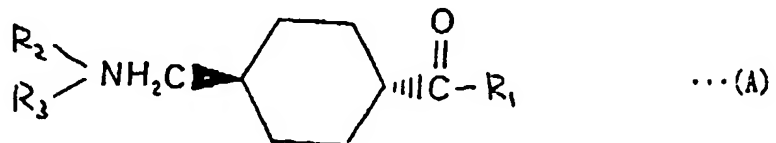
Inventor: **Akiyama, Naoe, c/o Shiseido Res. Center**
 1050, Nippa-cho,
 Kohoku-ku
 Yokohama-shi, Kanagawa 223 (JP)

Inventor: **Kitamura, Kenji, c/o Shiseido Res. Center**
 1050, Nippa-cho,
 Kohoku-ku
 Yokohama-shi, Kanagawa 223 (JP)

(74) Representative: **Perry, Robert Edward**
GILL JENNINGS & EVERY
 Broadgate House
 7 Eldon Street
 London EC2M 7LH (GB)

(54) **External preparation for skin containing a depigmentation agent.**

(57) An external preparation for skin including one or more than two types of tranexamic acid derivatives represented by the following general formula (A).
 GENERAL FORMULA (A)



(In the formula (A), R₁, R₂ and R₃ represents hydrogen atoms or substituents and at least one of these is the substituent.) The external preparation for skin including the derivatives have excellent depigmentation effect as well as skin care effect.

EP 0 585 130 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 93 30 6784

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CLS)
Y	DATABASE WPI Week 9237, Derwent Publications Ltd., London, GB; AN 92-304633 & JP-A-4 210 611 (SHISEIDO CO LTD) 31 July 1992 * abstract *	1-12	A61K7/48
Y,D	--- JOURNAL OF MEDICINAL CHEMISTRY, vol.15, no.3, 1972, EASTON, PA. pages 247 - 255 A. OKANO ET AL 'Medicinal Chemical Studies on Antiplasmin Drugs. 4. Chemical Modification of trans-4-Aminomethylcyclohexanecarboxylic acid and its Effect on Antiplasmin Activity' * tables I,II *	1,2,5, 11,12	
Y,D	--- DATABASE WPI Week 8220, Derwent Publications Ltd., London, GB; AN 82-40390E & JP-A-57 059 847 (HISAMITSU PHARM KK) 10 April 1982 * abstract *	1,3,4, 11,12	TECHNICAL FIELDS SEARCHED (Int.CLS) A61K
Y,D	--- DATABASE WPI Week 8220, Derwent Publications Ltd., London, GB; AN 82-40395E & JP-A-57 059 852 (HISAMITSU PHARM KK) 10 April 1982 * abstract *	1,6,11, 12	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 6 April 1994	Examiner Siatou, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document</p>			

EPO FORM 1501 (01/91) (P01001)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 93 30 6784

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cls)	
Y,D	DATABASE WPI Week 8237, Derwent Publications Ltd., London, GB; AN 82-77580E & JP-A-57 126 461 (NIPPON CHEMIFAR) 6 August 1982 * abstract *	1,7,11, 12		
Y,D	--- PATENT ABSTRACTS OF JAPAN vol. 6, no. 90 (C-104) 27 May 1982 & JP-A-57 021 360 (TEIKOKU CHEM IND CORP LTD) 4 February 1982 * abstract *	1,8,11, 12		
Y	--- FR-A-2 498 183 (NIPPON CHEMIFAR CO LTD) * claims 1-6 *	1,9,11, 12		
D	& JP-A-57 122 061 (...) ---			
Y	EP-A-0 041 826 (KUREHA KAGAKU KOGYO KABUSHIKI KAISHA) * abstract *	1,10-12		TECHNICAL FIELDS SEARCHED (Int.Cl.5)
D	& JP-A-57 116 035 (...) ---			
A,D	DATABASE WPI Week 8220, Derwent Publications Ltd., London, GB; AN 82-40391E & JP-A-57 059 848 (HISAMITSU PHARM KK) 10 April 1982 * abstract *	1-12		
A	--- PATENT ABSTRACTS OF JAPAN vol. 13, no. 308 (C-617) 14 July 1989 & JP-A-01 093 519 (SHISEIDO CO LTD) 12 April 1989 * abstract *	1-12		
The present search report has been drawn up for all claims				
Place of search BERLIN		Date of completion of the search 6 April 1994	Examiner Siatou, E	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>				

EPO FORM 150 (04.93) (P/CA)